

INTERNATIONAL STANDARD

**Connectors for electrical and electronic equipment - Product requirements -
Part 2-104: Circular connectors - Detail specification for circular connectors with
M8 screw-locking or snap-locking**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**Connectors for electrical and electronic equipment -
Product requirements -
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connectors with M8 screw-locking or snap-locking**

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IEC 61076-2-104 has been prepared by subcommittee 48B: Electrical connectors, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment. It is an International Standard.

This third edition cancels and replaces the second edition published in 2014. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) The structure of this document has been adapted to the new IEC template for standards. New subclauses have been added. Clause 5 and Clause 6 have been updated.
- b) The mating face for a M8 12-pole connector has been added.

- c) Annex B Orientation of cable outlet in relation to coding has been added.
- d) The styles for connector inserts have been moved to the normative Annex C.

The text of this International Standard is based on the following documents:

Draft	Report on voting
48B/3188/FDIS	48B/3194/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

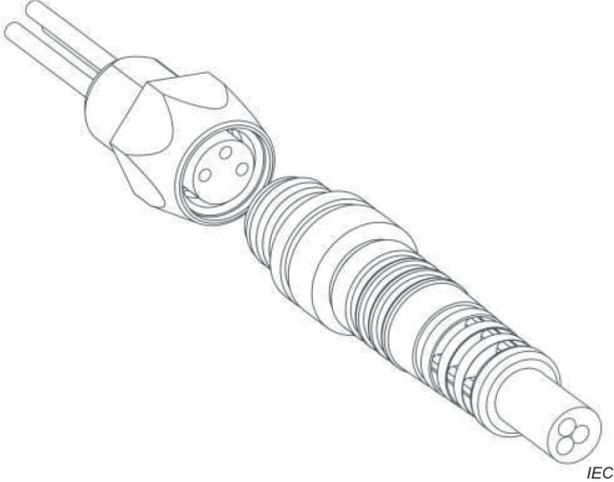
A list of all parts of the IEC 61076 series, published under the general title *Connectors for electrical and electronic equipment - Product requirements*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

Sample Document

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<p>IEC SC 48B – Electrical connectors</p> <p>Specification available from: IEC General secretariat or from the addresses shown on the inside cover.</p>	<p>IEC 61076-2-104 Ed 3</p>
<p>Electronic components of assessed quality in accordance with: IEC 61076-1</p>	
	<p>Circular connectors M8 (screw-locking) – diameter 8 mm (snap-locking)</p> <p>3 to 12 way</p> <p>Male and female contacts</p> <p>Male and female connectors</p> <p>Rewirable – Non-rewirable</p> <p>Free cable connectors straight and right angled</p> <p>Fixed connectors -flange mounting and single hole mounting</p> <p>Connector insert</p>

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1 Scope

This part of IEC 61076 describes 3-way to 12-way circular connectors with M8 screw-locking or with nominal \varnothing 8 mm snap-locking, for connection of automation devices, for signal and power transmission up to 50 V AC / 60 V DC rated voltage and up to 4 A rated current.

These connectors are available as fixed or free connectors, either rewirable or non-rewirable. Male connectors have round contacts \varnothing 0,48 mm, \varnothing 0,6 mm, \varnothing 0,7 mm and \varnothing 1,0 mm, depending on the number of ways and coding, with all contacts being of the same size.

The different codings prevent the mating of differently coded male and female connectors.

NOTE M8 is the dimension of the thread of the screw locking mechanism of these circular connectors.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050-581, *International Electrotechnical Vocabulary (IEV) - Part 581: Electromechanical components for electronic equipment*

IEC 60068-1, *Environmental testing - Part 1: General and guidance*

IEC 60352-2, *Solderless connections - Part 2: Crimped connections - General requirements, test methods and practical guidance*

IEC 60352-3, *Solderless connections - Part 3: Accessible insulation displacement (ID) connections - General requirements, test methods and practical guidance*

IEC 60352-4, *Solderless connections - Part 4: Non-accessible insulation displacement (ID) connections - General requirements, test methods and practical guidance*

IEC 60352-5, *Solderless connections - Part 5: Press-in connections - General requirements, test methods and practical guidance*

IEC 60352-6, *Solderless connections - Part 6: Insulation piercing connections - General requirements, test methods and practical guidance*

IEC 60352-7, *Solderless connections - Part 7: Spring clamp connections - General requirements, test methods and practical guidance*

IEC 60352-9, *Solderless connections - Part 9: Ultrasonically welded connections - General requirements, test methods and practical guidance*

IEC 60512 (all parts), *Connectors for electrical and electronic equipment – Tests and measurements*

IEC 60512-1, *Connectors for electrical and electronic equipment - Tests and measurements - Part 1: General specification*

IEC 60512-1-2, *Connectors for electronic equipment - Tests and measurements - Part 1-2: General examination - Test 1b: Examination of dimension and mass*

IEC 60512-2-1, *Connectors for electronic equipment - Tests and measurements - Part 2-1: Electrical continuity and contact resistance tests - Test 2a: Contact resistance - Millivolt level method*

IEC 60512-3-1, *Connectors for electronic equipment - Tests and measurements - Part 3-1: Insulation tests - Test 3a: Insulation resistance*

IEC 60512-4-1, *Connectors for electronic equipment - Tests and measurements - Part 4-1: Voltage stress tests - Test 4a: Voltage proof*

IEC 60512-6-3, *Connectors for electronic equipment - Tests and measurements - Part 6-3: Dynamic stress tests - Test 6c: Shock*

IEC 60512-6-4, *Connectors for electronic equipment - Tests and measurements - Part 6-4: Dynamic stress tests - Test 6d: Vibration (sinusoidal)*

IEC 60512-9-1, *Connectors for electronic equipment - Tests and measurements - Part 9-1: Endurance tests - Test 9a: Mechanical operation*

IEC 60512-13-2, *Connectors for electronic equipment - Tests and measurements - Part 13-2: Mechanical operation tests - Test 13b: Insertion and withdrawal forces*

IEC 60512-13-5, *Connectors for electronic equipment - Tests and measurements - Part 13-5: Mechanical operation tests - Test 13e: Polarizing and keying method*

IEC 60529:1989 + AMD1:1999 + AMD2:2013, *Degrees of protection provided by enclosures (IP code)*

IEC 60664-1:2020, *Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests*

IEC 60999-1, *Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units - Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm² up to 35 mm² (included)*

IEC 61076-1, *Connectors for electronic equipment - Product requirements - Part 1: Generic specification*

IEC 61984:2008, *Connectors - Safety requirements and tests*

IEC 62197-1, *Connectors for electronic equipment - Quality assessment requirements - Part 1: Generic specification*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050-581, IEC 61076-1, IEC 60512-1 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1**orientation**

circular mounting position of the connector in relation to the polarization of the mating interface

4 Technical information**4.1 Recommended method of termination for connectors**

The contact termination for rewirable connectors shall in accordance with the IEC 60352 series or IEC 60999-1, as applicable, or shall be by soldering.

4.2 Connector coding, number of contacts, ratings and characteristics

Table 1 provides the coding of these connectors as a function of their style, number of contacts, rated voltage and rated current.

Table 1 – Ratings of connectors

Coding	Style	Number of contacts	Rated voltage	Rated current
			AC or DC	A
A	3-way	3	50 V AC / 60 V DC	4
	4-way	4	50 V AC / 60 V DC	4
	6-way	6	32 V	1,5
	8-way	8	32 V	1,5
B	5-way	5	32 V	3
C	12-way	12	32 V	1

NOTE The rated current refers to the interface. It refers to the maximum conductor cross section that can be terminated.

Insulation resistance: $10^8 \Omega \text{ min.}$

Contact spacing: see interface dimensions in 5.4

4.3 Systems of levels**4.3.1 Performance level**

Connectors according to this document are classified by mating performance level (MPL). See 6.5.1 for details.

4.3.2 Compatibility levels, according to IEC 61076-1

Connectors according to this document are intermateable and interoperable according to IEC 61076-1 (level 3).

Interoperability is granted, provided that the same performance level as defined in 4.3.1 and the same surface of contacts as defined in 6.2 is considered.

4.4 Classification into climatic categories

See 6.3.

4.5 Creepage and clearance distances

The creepage and clearance distances shall be dimensioned according to rated insulation voltage values specified in Table 30 (see 6.4.1), in accordance with IEC 60664-1, and shall be measured only in mated position according to IEC 60512-1-2 (see 4.8, connectors are without breaking capacity (COC) unless otherwise specified by the manufacturer).

NOTE 1 Creepage distances can be dimensioned for pollution degree 2 for connectors IP54 or higher, see IEC 61984:2008, 6.19.3.

The creepage and clearance distances that cover performance requirements in IEC 60664-1 may be reduced, based on IEC TR 63040.

NOTE 2 As indicated in IEC 60664-1, IEC TR 63040 provides an alternative and more precise dimensioning procedure for clearances equal to or less than 2 mm.

In practice, reductions in creepage or clearance distances can occur due to the conductive pattern of the printed board, or the wiring used, and should in such case duly be taken into account.

NOTE 3 The permissible rated voltage depends on the application and the relevant specified safety requirements.

4.6 Current-carrying capacity

See 6.4.3.

4.7 Marking

The marking of the connector and the package shall be in accordance with IEC 61076-1.

4.8 Safety aspects

For safety aspects, IEC 61984 should be considered as guidance.

Connectors according to this document are COC per IEC 61984, unless otherwise specified by the manufacturer.

5 Dimensional information

5.1 General

Throughout this document, dimensions are given in mm. Figures are shown in the first angle projection. The shape of the connectors may deviate from those given in the following drawings as long as the specified dimensions are not influenced.

Missing dimensions shall be chosen according to common characteristics and intended use.

For all connector styles with cables, the length L of the cable shall be agreed between manufacturer and user.

Figure 1 to Figure 16, which illustrate each style, show the coding and connector interface as examples only. Each example applies to all codings and polarities of the respective style.

Alternative installation situations are possible and shall be agreed between manufacturer and user.

For interface dimensions for each coding see 5.4.

The interface dimensions of the female styles shall be chosen according to the common characteristics of the male styles.

For reliable intermateability, the dimensions of the female connector body as detailed in Annex A should be met.

For free connectors with right angled cable outlets, the direction of the coding in relation to the cable outlet shall be specified to assure that the cable leaves the housing in the specified direction. This is indicated by an arrow and described in Annex B.

See Annex C for several connector insert styles.

5.2 Fixed connectors

5.2.1 General

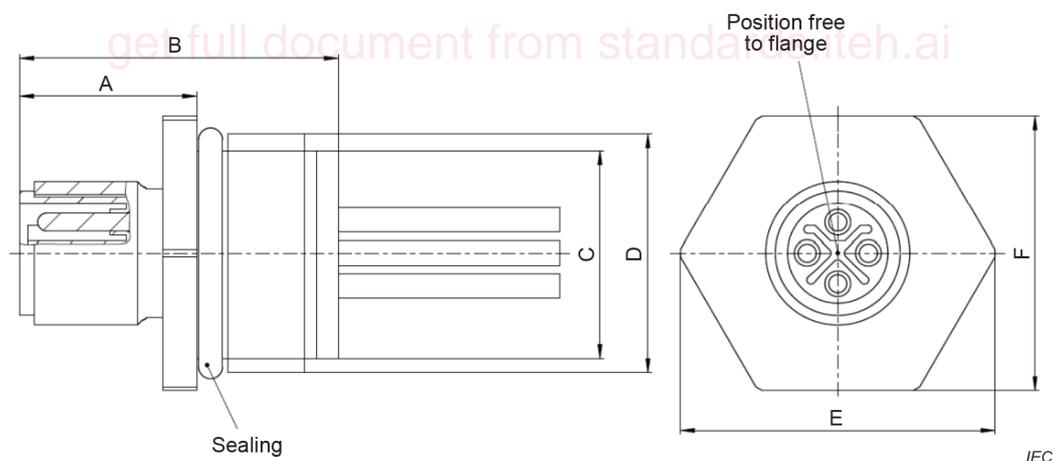
Table 2 shows the different styles of fixed connectors.

Table 2 – Styles of fixed connectors

Style	Description
EM	Fixed connector with wires, male contacts, single hole mounting.
EF	Fixed connector with wires, female contacts, single hole mounting.

5.2.2 Style EM

Figure 1 shows a fixed connector with wires, male contacts, and single hole mounting.



NOTE Dimension for width across flats

Figure 1 – Fixed connector with wires, male contacts, and single hole mounting

Table 3 shows the dimensions of style EM, Figure 1.

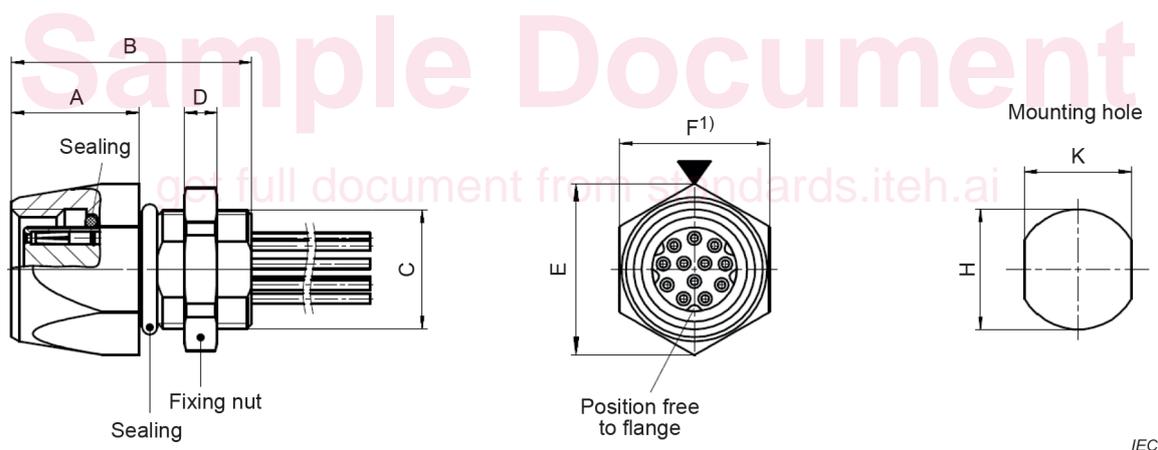
Table 3 – Dimensions of style EM, Figure 1

Dimensions in millimetres

Letter	Minimum	Nominal	Maximum
A	8,0	8,5	9,0
B	-	-	18
C	-	M8 × 0,5	-
D	-	-	3,2
E	-	-	11,5
F	-	10	-
G	6	-	-
H	Ø8,2	Ø8,2	Ø8,3
K	7,1	7,1	7,2

5.2.3 Styles EF1 and EF2

Figure 2 shows a fixed connector with wires, female contacts, and single hole mounting.



NOTE Dimension for width across flats.

The wire length shall be agreed upon between the manufacturer and user.

Figure 2 – Fixed connector with wires, female contacts, and single hole mounting